

Location Properties

Technician:

Address:

City:

County:

Cross Street 1:

Remedy:

Comments:

Map Number:

Pole Tags:

State:

Zip Code:

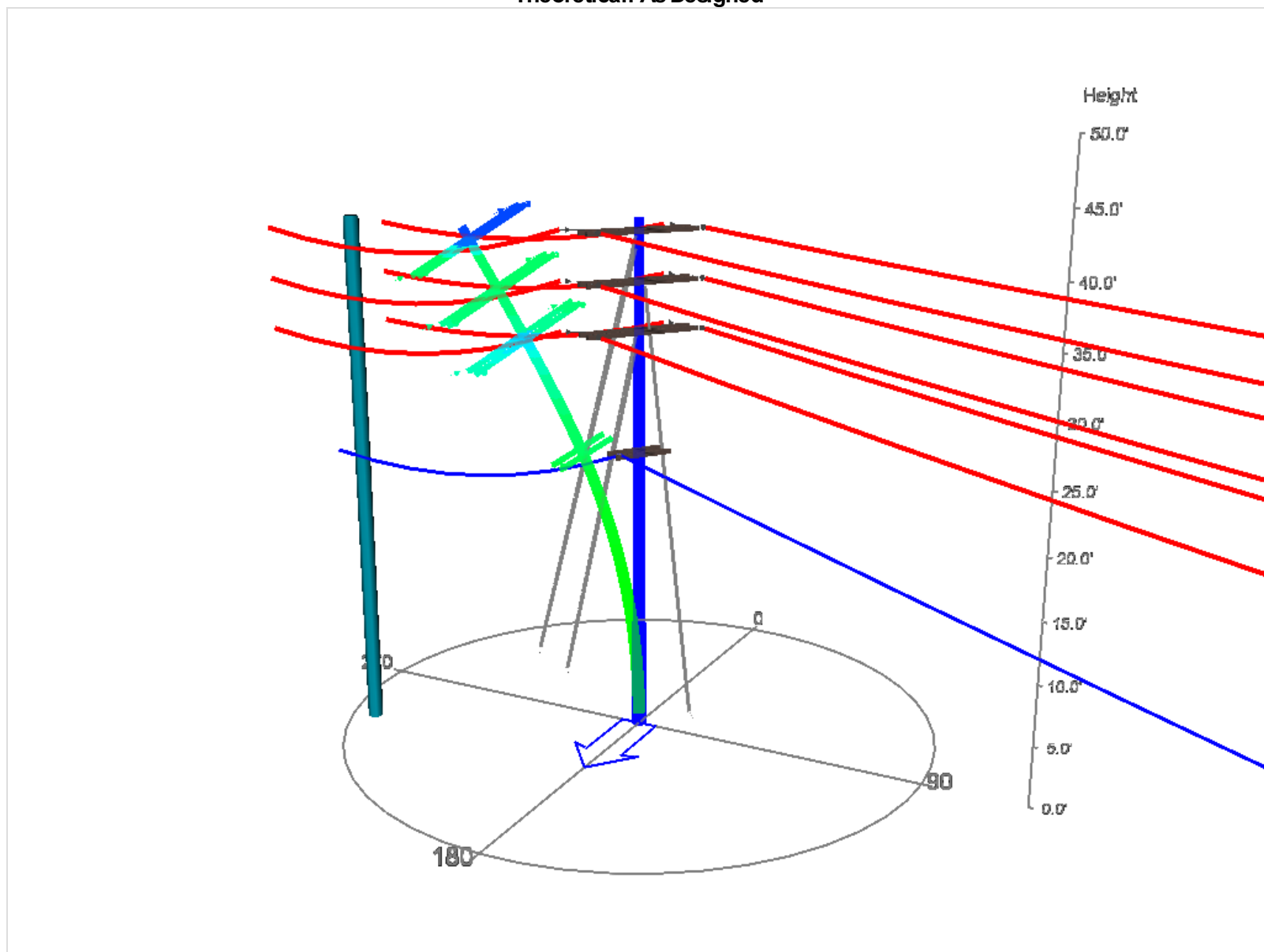
Cross Street 2:

Summary Notes:

Location Analysis Summary

Layer	Pole Length/Class	Minimum Safety Factor						Pole Strength Remaining	Loading Adjusted by Strength?	Clearance Violations Present?
		Pole	Guy	Anchor	Cross Arm	Insulator	Sidewalk Brace			
As Designed	50'/H1	6.06 from stress at 8' 2"	2.52 (Guy#1)	No Data	No Data	No Data	No Data	100%	Y	N

Theoretical: As Designed



Analysis Results

Loading

Component	New, 12 lb, Grade B (Governing Case)			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	6.06 from stress at 8' 2"	1254 / 7600 lb/in²	180 °	7600 lb/in²
Guy#1	2.52	6113 / 15400 lbf	180 °	15400 lbf
Guy#2	2.73	7327 / 20000 lbf	40 °	20000 lbf
Guy#3	2.61	7673 / 20000 lbf	40 °	20000 lbf
Guy#4	2.61	7671 / 20000 lbf	40 °	20000 lbf
Guy#5	2.55	7846 / 20000 lbf	40 °	20000 lbf

Wire End Points and Wires

WEP#1												
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground					
Next Pole	None	142'	124 °	Undefined.	0 °	N/A	N/A					
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, 12 lb, Grade B		
										Tension	Sag	
Wire#1	336.4 ACSR Tree Wire	SCE	Primary	Light Full	42' 2"	0' 0"	1	1735 lbf*	Dynamic	1901.59 lbf**	1' 2"***	
Wire#2	336.4 ACSR Merlin	SCE	Primary	Light Full	42' 2"	0' 0"	1	1208 lbf*	Dynamic	1313.53 lbf**	1' 2"***	
Wire#5	336.4 ACSR Tree Wire	SCE	Primary	Light Full	38' 2"	0' 0"	1	1735 lbf*	Dynamic	1895.37 lbf**	1' 2"***	
Wire#6	336.4 ACSR Merlin	SCE	Primary	Light Full	38' 2"	0' 0"	1	1208 lbf*	Dynamic	1308.8 lbf**	1' 2"***	
Wire#3	336.4 ACSR Merlin	SCE	Primary	Light Full	34' 2"	0' 0"	1	1208 lbf*	Dynamic	1312.97 lbf**	1' 2"***	
Wire#4	336.4 ACSR Tree Wire	SCE	Primary	Light Full	34' 2"	0' 0"	1	1735 lbf*	Dynamic	1895.92 lbf**	1' 2"***	
Wire#7	Car. Sol. - A.C. - Mult.Fib.	Edison Carrier Solution	Communication	Light Full	24' 2"	0' 0"	1	413 lbf*	Dynamic	581.54 lbf**	2' 3"***	

WEP#2												
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground					
Previous Pole	None	23'	247 °	Undefined.	0 °	N/A	N/A					
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, 12 lb, Grade B		
										Tension	Sag	
Wire#10	336.4 ACSR Merlin	SCE	Primary	Light Reduced Unguyed	42' 2"	0' 0"	1	19 lbf*	Dynamic	130.1 lbf**	0' 4"***	
Wire#9	336.4 ACSR Tree Wire	SCE	Primary	Light Reduced Unguyed	42' 2"	0' 0"	1	20 lbf*	Dynamic	194.53 lbf**	0' 4"***	
Wire#13	336.4 ACSR Tree Wire	SCE	Primary	Light Reduced Unguyed	38' 2"	0' 0"	1	20 lbf*	Dynamic	194.53 lbf**	0' 4"***	
Wire#14	336.4 ACSR Merlin	SCE	Primary	Light Reduced Unguyed	38' 2"	0' 0"	1	19 lbf*	Dynamic	130.1 lbf**	0' 4"***	
Wire#11	336.4 ACSR Merlin	SCE	Primary	Light Reduced Unguyed	34' 2"	0' 0"	1	19 lbf*	Dynamic	130.1 lbf**	0' 4"***	
Wire#12	336.4 ACSR Tree Wire	SCE	Primary	Light Reduced Unguyed	34' 2"	0' 0"	1	20 lbf*	Dynamic	194.53 lbf**	0' 4"***	
Wire#8	Car. Sol. - A.C. - Mult.Fib.	Edison Carrier Solution	Communication	Light Reduced Unguyed	24' 2"	0' 0"	1	4 lbf*	Dynamic	77.12 lbf**	0' 6"***	

*Tension value used in an analysis may vary dependent on 'Average Length on Main Span' setting in the Load Case.

** Tension value is inclusive of environmental and load factors associated with the Load Case.

*** Sag value is inclusive of environmental and load factors associated with the Load Case.

Anchors

Anchor#1											
Size	Owner	Lead	Direction	Height	Supporting						
1" Triple Eye - Anchor Rod and Plate	SCE	5' 0"	34 °	0' 0"	Other						
ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	New, 12 lb, Grade B		
									Pretension	Tension	
Guy#1	3/8" EHS	SCE	37' 6"	8 °	N/A	N/A	N/A	N/A	1429.91 lbf*	-6.78 lbf**	

* Pretension values are calculated at 60°F (15.5°C) and without load factors.

** Tension value is calculated without load factors or wind.

Anchor#3

Size	Owner	Lead	Direction	Height	Supporting
1 1/4" Triple Eye - Anchor Rod and Plate	SCE	14' 0"	304 °	0' 0"	Other

ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	New, 12 lb, Grade B	
									Pretension	Tension
Guy#4	7/16" EHS	SCE	33' 6"	23 °	N/A	N/A	N/A	N/A	4805.95 lb*	6.07 lb**
Guy#5	7/16" EHS	SCE	32' 6"	23 °	N/A	N/A	N/A	N/A	4877.58 lb*	5.91 lb**

* Pretension values are calculated at 60°F (15.5°C) and without load factors.

** Tension value is calculated without load factors or wind.

Anchor#2

Size	Owner	Lead	Direction	Height	Supporting
1 1/4" Triple Eye - Anchor Rod and Plate	SCE	20' 0"	304 °	0' 0"	Other

ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	New, 12 lb, Grade B	
									Pretension	Tension
Guy#2	7/16" EHS	SCE	41' 6"	26 °	N/A	N/A	N/A	N/A	5024.65 lb*	7.7 lb**
Guy#3	7/16" EHS	SCE	40' 6"	26 °	N/A	N/A	N/A	N/A	5172.65 lb*	7.55 lb**

* Pretension values are calculated at 60°F (15.5°C) and without load factors.

** Tension value is calculated without load factors or wind.

Cross Arms

ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#1	10 Foot Double Cross Arm	42' 0"	Other	214 °	5' 0"	Insulator#1, Insulator#2, Insulator#3, Insulator#4
CrossArm#2	10 Foot Double Cross Arm	34' 0"	Other	214 °	5' 0"	Insulator#5, Insulator#6, Insulator#7, Insulator#8
CrossArm#3	10 Foot Double Cross Arm	38' 0"	Other	214 °	5' 0"	Insulator#9, Insulator#10, Insulator#11, Insulator#12
CrossArm#4	5 Foot Double Cross Arm	24' 0"	Other	214 °	2' 6"	Insulator#13, Insulator#14

Insulators

ID	Size	Direction	Offset	Wires
Insulator#1	16 kV Deadend	124 °	0' 4"	Wire#1
Insulator#2	16 kV Deadend	247 °	0' 4"	Wire#9
Insulator#3	16 kV Deadend	124 °	9' 8"	Wire#2
Insulator#4	16 kV Deadend	247 °	9' 8"	Wire#10
Insulator#5	16 kV Deadend	124 °	9' 8"	Wire#3
Insulator#6	16 kV Deadend	247 °	9' 8"	Wire#11
Insulator#7	16 kV Deadend	124 °	0' 4"	Wire#4
Insulator#8	16 kV Deadend	247 °	0' 4"	Wire#12
Insulator#9	16 kV Deadend	124 °	0' 4"	Wire#5
Insulator#10	16 kV Deadend	247 °	0' 4"	Wire#13
Insulator#11	16 kV Deadend	124 °	9' 8"	Wire#6
Insulator#12	16 kV Deadend	247 °	9' 8"	Wire#14
Insulator#13	3" Spool Bolt	124 °	0' 5"	Wire#7
Insulator#14	3" Spool Bolt	247 °	0' 4"	Wire#8

Location 1527519E Location Forms

Pole Info Form

- Pole Equipment #:
- Previous Inspection Date:
- Year Installed: 1963
- As Is POA Height:
- As Is POA Diameter:
- As Designed POA Height:
- As Designed POA Diameter:
- Thomas Guide/Quadrant:
- Circuit :
- Substation:
- FIM:
- Location:
- City:
- Brand Height:
- Date Pole Load Performed:
- Comments:
- GPS Location: N/A

SAP

- Field Inspection Date: 04/30/2020
- High Fire: Extreme
- Special Project: No
- Associated Poles:
- Visible Damage: No
- Pole Type: ED
- District: 59 - Valencia
- Region: ED-NW-NORTHCOA
- Above 3000 Ft Elevation: No
- As Designed Work Type: Replace
- Access Notes:

QC Comments

- QC Comments: